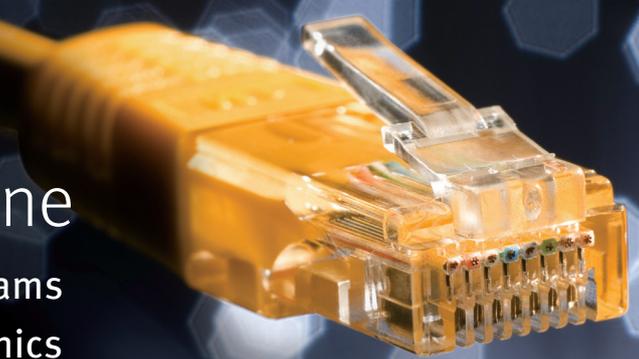**VIZRT**

Viz Engine™

Introducing IP streaming capability for the Viz Engine

- ▪ Supports SD, HD, 4k with SDI and IP streams
- ▪ Real-time compositing of video and graphics
- ▪ Flexible hardware support

The IP streaming capabilities of the Viz Engine gives broadcasters a powerful real-time compositing engine that combines graphics and video into an IP stream. The system lets broadcasters extend their brand beyond SDI – to the web and mobile devices.

Key Features

- ▪ Real-time render engine
- ▪ 2D & 3D Graphics
- ▪ Live video inputs
- ▪ Supports SD & HD
- ▪ Keyframes

- ▪ Key and fill outputs
- ▪ IP streaming
- ▪ Stereoscopic output
- ▪ Open GL implementation
- ▪ Timeline-based audio

- ▪ Powerful plug-in API
- ▪ Full scene anti-aliasing
- ▪ Internal keyer
- ▪ Stereoscopic output

Bringing broadcast to the IT world

With an IP based workflow, broadcasting enters the IT world. Instead of SDI cables and routers built through a TV station's infrastructure, one simply needs a network connection to distribute video. Content is becoming file-based so it can be easily stored, searched and distributed. Live video can exist as a stream that can be distributed to multiple platforms.

Portable and affordable

Viz Engine allows for streaming IP video in and out. Graphics and video are composited in real-time and output as a stream that can be many formats such as MPEG-2 at 1080i/25, 1080i/29.97, 1080p/30, 720p/50 and others for online, mobile devices and live on-air. With no need for an expensive video card, the system takes up less rack space. The IT infrastructure makes it highly portable for OB vans and very affordable for broadcasters.

Any format, any resolution

When combined with the Matrox X.mio card, the Viz engine becomes a complete compositing system for all video needs including SD, HD, 4K in SDI and IP streams.

An integrated solution

With the Viz Engine and the Viz Media Engine media asset management solution Vizrt offers a complete, end-to-end solution that allows broadcasters to manage all their content from ingests to distribution. Increase speed and volume, and adapt content for delivery to multiple platforms with the IP streaming capabilities of the Viz Engine.

Viz Engine

Control your graphics and search video clips from the many Vizrt control applications

Live SDI or streaming video directly to the Viz Engine

Transfer your HD clips from the Viz One

IP Stream

Streaming video and audio composited with graphics

SDI Video

SDI video content in SD, HD and 4K

Streaming Output

Transport protocol
- UDP/IP

Transport format
- MPEG-2 transport stream

Video
Video formats
- 1080i/25, 1080i/29.97, 1080p/30 720p/50, 720p/59.94, 720p/60 576i/25, 480i/29.97

Compression formats
- MPEG-2 video MP @ ML (15Mb/s max)
- MPEG-2 video MP @ HL (80 Mb/s max)

Audio
Audio formats
- Stereo, Mono

Compression Audio formats
- MPEG-1 Layer 2

Streaming Input

Transport protocol
- MPEG-2 Transport Stream over UDP/IP
- MPEG-2 Transport Stream over RTP/UDP

Streaming protocol
- RTP, RTSP

Video
Video formats
- 1080i/25, 1080i/29.97, 1080p/30 720p/50, 720p/59.94, 720p/60 576i/25 480i/29.97

Compression formats
- MPEG-2 Video, MPEG-4 Part 2, h.264/AVC

Audio
Audio formats
- Stereo, Mono

Compression formats
- MPEG-1 Layer 2, AAC

Visit **vizrt.com** for more information about Viz Engine

VIZRT